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(54) **NOVEL PHOSPHORYLATED BETA-GLUCAN
WITH ANTI-AIDS VIRAL ACTIVITY AND DRUG
FOR TREATING RETROVIRUS INFECTIOUS
DISEASE**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a phosphorylated glucan that has an anti-AIDS viral activity, has less side effects, and is hardly decomposed with intracorporeal enzymes by phosphorylating the glucan extracted from Grifola frondosa.

SOLUTION: A glucan is extracted from the mycelium

and/or fruit body of Grifola frondosa of Basidiomycetes with hot water, is centrifuged, and is subjected to acid/alkali treatment, and purification treatment, such as gel filtration and column adsorption, and 5% or more of the hydroxyl groups of the glucan is phosphorylated with a phosphate to obtain a β -1,3 glucan having a molecular weight of 160,000 to 250,000, a protein content of 1% by weight or less, and a β -1,3 bonding branched chain and/or a phosphorylated β -1,3 glucan having a β -1,3 bonding branched chain.

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